

# ORION

CREW EXPLORATION VEHICLE

WEEKLY ACCOMPLISHMENTS

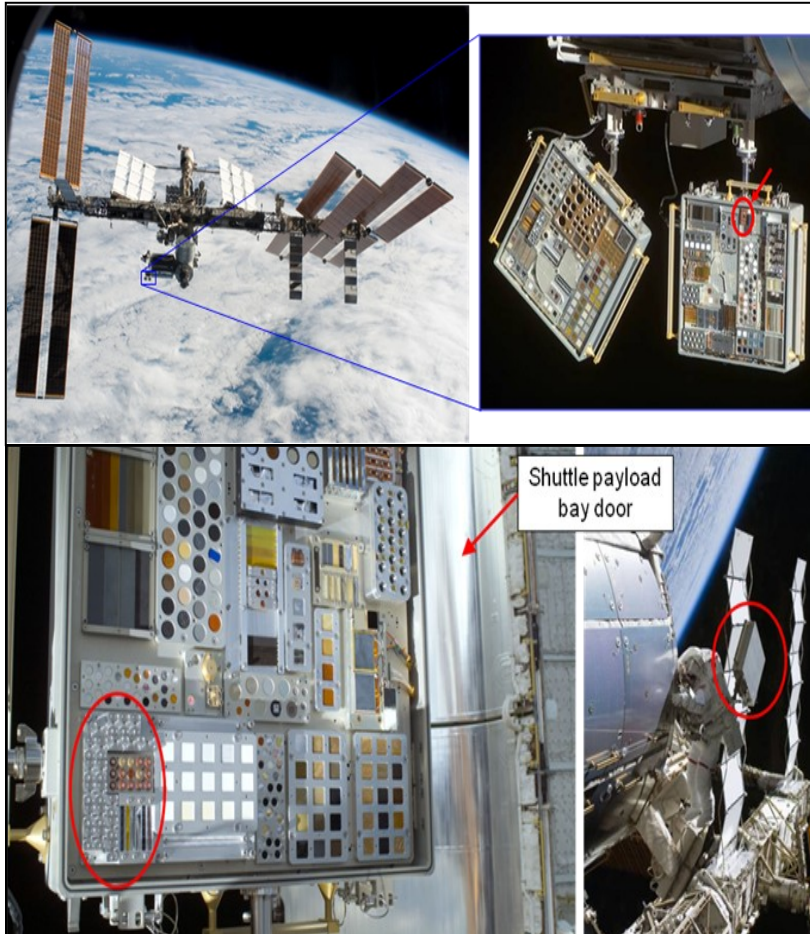


9.18.09



**Stacking operations for the full scale Pad Abort 1 Crew Module and Launch Abort System pathfinders was completed at White Sands Missile Range in New Mexico. (Photos above and left.** The team had the opportunity to understand all aspects of handling & stacking these units at the launch pad and rehearse mating operations before the final Pad Abort 1 test components are delivered early next year.

**Progress was made on the new Crew Module Medium Fidelity Mockup that will be housed at Johnson Space Center for on-going tests and assessments.** Shown in the top banner is the mockup heat shield that will allow Human in the Loop test and verification.



**The Low Impact Docking System (LIDS) Materials International Space Station Experiment (MISSE 6)** on-orbit seal experiment was successfully retrieved during EVA 1 of the STS-128 mission after spending 18 months on orbit. MISSE 6 exposed candidate LIDS seal materials to the Low Earth Orbit environment. The experiment was mounted on the ISS Columbus module (Photos left). Testing of specimens to evaluate the effects on performance will take place early next year at the Glenn Research Center.

**Progress on the Orion Ground Test Article (GTA) welding continues at the Michoud Assembly Facility (MAF) in New Orleans, Louisiana.** A second panel weld in sequence 2 was completed as the GTA hatch panel (Photo right) arrived at the MAF. Welds on the window panels, hatch panel, and final panel welds will take place over the next month.

